

**LUVOCOM® 1301-0915**

 LEHOSS Group - *Linear Polyphenylene Sulfide*
**General Information**
**Product Description**

with carbon fibers, PTFE lubricant modified; natural color (black)

**Main Features**

- Electrically conductive, suitable for continuous discharging of statically-generated electricity.
- Improved friction and wear behaviour. Optimised for dry running operations.
- High continuous-use and heat-distortion temperatures. Non flammable.
- High-strength and stiffness parts with low creep.

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Carbon Fiber		
Additive	• PTFE Lubricant		
Features	• Creep Resistant	• High Stiffness	• Low Friction
	• Electrically Conductive	• High Strength	• Lubricated
	• High Heat Resistance	• Ignition Resistant	• Wear Resistant
Appearance	• Black		

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density	1.49	g/cm <sup>3</sup>	ISO 1183
Water Absorption (24 hr, 73°F)	< 0.050	%	ISO 62
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	1.89E+6	psi	ISO 527-1/1
Tensile Stress	18100	psi	ISO 527-2
Tensile Strain (Yield)	1.2	%	ISO 527-2/50
Flexural Modulus <sup>2</sup>	1.45E+6	psi	ISO 178
Flexural Stress <sup>3</sup>	25400	psi	ISO 178
Flexural Strain - (Yield) <sup>4</sup>	1.5	%	ISO 178
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (264 psi, Unannealed)	500	°F	ISO 75-2/A
Continuous Use Temperature <sup>5</sup>	428	°F	IEC 60216
CLTE - Flow	1.7E-5	in/in/°F	ISO 11359-2
Service Temperature - during lifetime max. 200 hr	464	°F	
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity	< 1.0E+3	ohms	IEC 62631-3-2
Insulation Resistance <sup>6</sup>	< 1.0E+5	ohms	IEC 62631-3-3

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature		
--	122 to 194	°F
Desiccant Dryer, A	212 to 284	°F
Drying Time		
--	> 4.0	hr
Desiccant Dryer, A	2.0 to 4.0	hr
Rear Temperature	572 to 608	°F
Middle Temperature	590 to 626	°F



Front Temperature	608 to 644 °F
Nozzle Temperature	608 to 644 °F
Mold Temperature	302 to 356 °F

#### Injection Notes

During processing, the moisture level should not exceed 0.01%, otherwise molecular degradation may occur. As the material absorbs water very quickly, the predried material should be fed to the processing immediately. The processing notes provided merely represent a recommendation for general use. Due to the large variety of machines, geometries and volumes of parts, etc., it may be necessary to employ different settings according to the specific application. Please contact us for further information.

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 0.079 in/min

<sup>3</sup> 0.39 in/min

<sup>4</sup> 10 mm/min

<sup>5</sup> 20,000 hr

<sup>6</sup> strip electrode R25

